Total No. of Questions : 5]

SEAT No. :

PA-1968

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[5954]-303
S.Y. B.B.A. (Computer Application)
CA - 303 : SOFTWARE ENGINEERING
(2019 CBCS Pattern) (Semester - III)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt any EIGHT of the following. **[2×8=16]**

a) What is system?

b) Define software?

c) Define RAD.

d) What is SRS.

e) State the principles of Software Testing?

f) What is software Reengineering?

g) State advantages of Waterfall model.

h) State any two types of coupling.

i) Define an Entity.

j) What is Pseudocode?

Q2) Attempt any four of the following. **[4×4=16]**

a) Explain various types of system.

b) Explain different McCall's quality factors.

c) Explain spiral model in detail.

d) Discuss different fact finding techniques.

e) Differentiate between White - Box and Black-Box Testing.

Q3) Attempt any four of the following. **[4×4=16]**

a) Material is issued to the department by considering whether the Material Requisition Note (MRN) is signed or not. It contains valid items or not and it is given within 8 hours or not. Draw decision table for the above case.

P.T.O.

b) Design a Input screen layout for creating user account on Internet (with personal details, user-id and password, save, cancel commands etc).

c) Draw decision tree for the following case:

A company gives discount on the purchase of goods depending on the sale and duration of payment:

i) 5% discount if order amount > 50,000.

ii) 3% discount if order amount between 25,000 and 50,000

iii) No discount if order amount < 10,000 or payment is not done within 8 days.

d) Design an screen layout for employees salary slip.

e) Draw ER-Diagram for "College Admission System".

Q4) Attempt any Four of the following. **[4×4=16]**

a) Draw first level DFD for Hospital Management system in which the hospital has Inpatient Department (IPD), outpatient Department (OPD) the system maintains patient records and bills of the patient.

b) Identify all entities of online shopping system.

c) Draw context level diagrams for online shopping system.

d) Draw first level DFD for customer Order system.

e) Explain elements of Data flow diagrams?

Q5) Write a short note on any Two of the following. **[3×2=6]**

a) Types of Cohesion

b) Validation and Verfication Testing.

c) Feasibility study.